

### REQUEST

Rec'd	PCT/PT	05	JAN	2005
	-			

nternational Application No.	 	
nternational Filing Date		
	 ernational A	

international application be processed according to the Patent Cooperation Treaty.	Name of receiving Of	Name of receiving Office and "PCT International Application"					
Applicant's or agent's file reference (if desired) (12 characters maximum) 8016-618CUM							
Box No. I TITLE OF INVENTION START-UP CONTROL OF INTERNAL COMBUSTION ENGINES							
Box No. II APPLICANT This person is also inventor							
Name and address: (Family name followed by given name; for a legal entity, full official designation.  The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)							
CUMMINS INC.  500 West Jackson Street							
Columbus, Indiana 47202 US		Teleprinter No.					
,		Applicant's registration No. with the Offic					
State (that is, country) of nationality: US	State (that is, country US	of residence:					
This person is applicant for the purposes of:  all designated States all design the Unite	nated States except and States of America	the United States of America only the States indicated in the Supplemental Box					
Box No. III FURTHER APPLICANT(S) AND/OR (FU	RTHER) INVENTOR(S)						
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)  UPLAP, Rahu R.  Flat No. 1, Niranand Hsg. Soc., Paud Road  Pune, Maharashtra, INDIA 411029  Inventor only (If this check-box is marked, do not fill in below.)  Applicant's registration No. with the Office							
State (that is, country) of nationality:	State (that is, country IN	of residence:					
This person is applicant for the purposes of:	nated States except d States of America	the United States of America only the States indicated in the Supplemental Box					
Further applicants and/or (further) inventors are indicate	ed on a continuation sheet.						
Box No. IV AGENT OR COMMON REPRESENTATI	VE; OR ADDRESS FOR	R CORRESPONDENCE					
The person identified below is hereby/has been appointed to a of the applicant(s) before the competent International Authority	ct on behalf ties as:	agent common representative					
Name and address: (Family name followed by given name; for a legal entity, full official designation.  The address must include postal code and name of country.)  317-634-3456							
James M. DURLACHER WOODARD, EMHARDT, MORIARTY, MCNETT & HENRY LLP Bank One Center/Tower, Suite 3700  Facsimile No. 317-637-7561							
111 Monument Circle Indianapolis, Indiana 46204 US		Teleprinter No.					
SEE CONTINUATION TO BOX NO. IV ON SHEE	SEE CONTINUATION TO BOX NO. IV ON SHEET NO. 5  Agent's registration No. with the Office #28,840						
Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.							

eet No2	Age <sub>i</sub> .	8016-61

Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)  When a of the following sub-boxes is used, this sheet should not be included in the request.						
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)  TIKHE, Vinayak S. B-1, Manmohan Hsg. Soc., Karvenagar Pune, Maharashtra, India 411052  This person is:  applicant only  applicant and inventor  inventor only (If this check-box is marked, do not fill in below.)  Applicant's registration No. with the Office						
State (that is, country) of nationality:	State (that is, country	) of residence:				
This person is applicant all designated for the purposes of:  States all designated the United States	States except ates of America	the United States of America only the States indicated in the Supplemental Box				
Name and address: (Family name followed by given name: for a legal entiry. The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence BAHULIKAR, Sunil S. 51, Happy Colony, Kothrud Pune, Maharashtra, India 411029	e address indicated in this	This person is:  applicant only  applicant and inventor  inventor only (If this check-box is marked, do not fill in below.)  Applicant's registration No. with the Office				
State (that is, country) of nationality:	State (that is, country,	of residence:				
This person is applicant all designated for the purposes of:	States except tes of America	the United States of America only the States indicated in the Supplemental Box				
Name and address: (Family name followed by given name; for a legal entity The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence DESHPANDE, Pralhad S. S. No. 20, Central Bank Colony Putwardhan Baug, Erandwane Pune, Maharashtra, India 411004	address indicated in this	This person is:  applicant only  applicant and inventor  inventor only (If this check-box is marked, do not fill in below.)  Applicant's registration No. with the Office				
State (that is, country) of nationality:	State (that is, country)	of residence:				
This person is applicant all designated all designated	States except	the United States the States indicated in the Supplemental Box				
Name and address: (Family name followed by given name: for a legal entity. The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence SURYAWANSHI, Pravin A. Plot No. 33, Gururaj Hsg. Soc., Paud Road Pune, Maharashtra, India 411029	address indicated in this	This person is:  applicant only  applicant and inventor inventor only (If this check-box is marked, do not fill in below.)  Applicant's registration No. with the Office				
State (that is, country) of nationality:	State (that is, country) IN	of residence:				
This person is applicant for the purposes of:  all designated all designated the United States.	States except	the United States the States indicated in the Supplemental Box				
Further applicants and/or (further) inventors are indicated on	another continuation s	sheet.				

Sheet	Nο		3.

	AND/OR (FURTHER) INVENTOR(S)				
If none of the following sub-boxes is used, this sheet should no	t be included in the request.				
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)  KHAIRNAR, Asmita Y.  Shewanti, 67/4, Dynanesh Soc. Warje  Pune, Maharashtra, India 411029  This person is:  applicant only  applicant and inventor  inventor only (If this check-box is marked, do not fill in below.)  Applicant's registration No. with the Official designation.  This person is:					
State (that is, country) of nationality:	State (that is, country) of residence:				
IN	IN				
This person is applicant all designated states all designated the United St	the United States the States indicated in the Supplemental Box				
Name and address: (Family name followed by given name; for a legal enti- The address must include postal code and name of country. The country of th Box is the applicant's State (that is, country) of residence if no State of residence DAMLE, Manik S. Flat No. 20, Sai Vishwa, Martand Soc. NDA Road, Bawdhan Pune, Maharashtra, India 411021	e address indicated in this				
State (that is, country) of nationality:	State (that is, country) of residence:  IN				
This person is applicant all designated all designated for the purposes of:	States except the United States the States indicated in the Supplemental Box				
Name and address: (Family name followed by given name; for a legal entithe address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence PUJARI, Ishani A.  Sharayu, C/O Prof. Gawade Shahu Colony, Lane No. 2 Pune, Maharashtra, India 411029	e address indicated in this				
State (that is, country) of nationality:	State (that is, country) of residence:				
This person is applicant all designated all designated	States except the United States the States indicated in the Supplemental Box				
Name and address: (Family name followed by given name; for a legal entity, full official designation.  The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)  This person is:  applicant only  applicant and inventor  inventor only (If this check-box is marked, do not fill in below.)  Applicant's registration No. with the Office					
State (that is, country) of nationality:	State (that is, country) of residence:				
This person is applicant all designated all designated the United States	States except the United States the States indicated in thes of America only the Supplemental Box				
Further applicants and/or (further) inventors are indicated or	n anoth <del>er</del> continuation sheet.				

		Sheet No. 4	Agent Re	80
Par No V DESIC	NATION OF STATES	Mark the applicable check-	hores below: at lea	ast one must

В	x No	D. V DESIGNATION OF STATES	5	M	fark the applicable check-boxes belov	v; at	leas	t one must be marked.
77)	e fol	lowing designations are hereby made	unc	ler R	ule 4 9(a):			
l		nal Patent						
		ARIPO Patent: GH Ghana, GI	м (	-ami	hia KR Kenya I.S Lesotho MV	/ M:	alau	vi MZ Mozambique SD Sudan.
		SL Sierra Leone, SZ Swaziland, TZ State which is a Contracting State specify on dotted line)	of	nited the H	Republic of Tanzania, UG Uganda, Iarare Protocol and of the PCT (if a	ZM ther	Zan kind	nbia, ZW Zimbabwe, and any other dof protection or treatment desired,
×	EA	Eurasian Patent: AM Armenia, A RU Russian Federation, TJ Tajikis Patent Convention and of the PCT	Z A tan,	zerb TM	aijan, BY Belarus, KG Kyrgyzstan, Turkmenistan, and any other State	KZ whic	Kaz h is	akhstan, MD Republic of Moldova, a Contracting State of the Eurasian
		European Patent: AT Austria, BE Republic, DE Germany, DK Denm lia HU Hungary, IE Ireland, IT Italy, SK Slovakia, TR Turkey, and any o	ark LU	, EE J Lu	Estonia, ES Spain, FI Finland, FR tembourg, MC Monaco, NL Netherl	Frai ands	nce, PT	GB United Kingdom, GR Greece,
		OAPI Patent: BF Burkina Faso, I GA Gabon, GN Guinea, GQ Equat TD Chad, TG Togo, and any other of protection or treatment desired, sp	BJ I tori Sta pec	Bening al Guarding with the second se	n, CF Central African Republic, CG ninea, GW Guinea-Bissau, ML Malich is a member State of OAPI and a dotted line)	Co: li, M a Co	ngo, R N ntra	CI Côte d'Ivoire, CM Cameroon, Mauritania, NE Niger, SN Senegal, cting State of the PCT (if other kind
		nal Patent (if other kind of protection				-		
		United Arab Emirates	M	GM	Gambia			New Zealand
X	AG	Antigua and Barbuda		HR	Croatia		OM	Oman
		Albania						
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120	AU	Australia		IN	India		KU DI	Russian Federation
	AZ	Azerbaijan		12	Iceland		ΚU	
		Bosnia and Herzegovina					66	Caraballas
					Kenya			
	BG	Bulgaria		KG	Kyrgyzstan			
		Brazil						Sweden
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		Belize		KR	Kazakhstan		2K	Siovakia
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		China						Tunisia
		Colombia Costa Rica		LK	Liberia			
								Trinidad and Tobago
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		Algeria	<b>0X1</b>		Madagascar	ы	US	Omted States of America
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		Spain	121		Mongolia			Viet Nam
		_			Malawi	_		
_					Mexico			
		Georgia						Zimbabwe
IQ!	GH	Ghana	لإقدا	NU	Norway	겥.	८ ४४	Zumuduwe
Ch	eck-h	oxes below reserved for designating S	State	es wi	nich have become party to the PCT a	fter	issu	ance of this sheet:
		Nicaragua	<b>S</b>	SY	Syrian Arab Republic			
		Papua New Guinea						
						_		
Pre	caut	ionary Designation Statement: In a	add	ition	to the designations made above, the	app	ııcaı	it also makes under Kule 4.9(b) all

other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation (including fees) must reach the receiving Office within the 15-month time limit.)

#### Supplemental Box

If the Supplemental Box is not used, this sheet should not be included in the request.

- If, in any of the Boxes, except Boxes Nos. VIII(i) to (v) for which 1. a special continuation box is provided, the space is insufficient to furnish all the information: in such case, write "Continuation of Box No .... " (indicate the number of the Box) and furnish the information in the same manner as required according to the captions of the Box in which the space was insufficient, in
- if more than two persons are to be indicated as applicants and/or inventors and no "continuation sheet" is available: in such case, write "Continuation of Box No. III" and indicate for each additional person the same type of information as required in Box No. III. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below;
- if, in Box No. II or in any of the sub-boxes of Box No. III, the indication "the States indicated in the Supplemental Box" is checked: in such case, write "Continuation of Box No. II" or "Continuation of Box No. III" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the applicant(s) involved and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is applicant;
- (iii) if, in Box No. II or in any of the sub-boxes of Box No. III, the inventor or the inventor/applicant is not inventor for the purposes of all designated States or for the purposes of the United States of America: in such case, write "Continuation of Box No. II" or "Continuation of Box No. III" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the inventor(s) and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is inventor;
- if, in addition to the agent(s) indicated in Box No. IV, there are further agents: in such case, write "Continuation of Box No. IV" and indicate for each further agent the same type of information as required in Box No. IV;
- if, in Box No. V, the name of any State (or OAPI) is accompanied by the indication "patent of addition," or "certificate of addition," or if, in Box No. V, the name of the United States of America is accompanied by an indication "continuation" or "continuation-in-part": in such case, write "Continuation of Box No. V" and the name of each State involved (or OAPI), and after the name of each such State (or OAPI), the number of the parent title or parent application and the date of grant of the parent title or filing of the parent application;
- if, in Box No. VI, there are more than five earlier applications whose priority is claimed: in such case, write "Continuation of Box No. VI" and indicate for each additional earlier application the same type of information as required in Box No. VI.
- If, with regard to the precautionary designation statement contained in Box No. V, the applicant wishes to exclude any 2. State(s) from the scope of that statement: in such case, write "Designation(s) excluded from precautionary designation statement" and indicate the name or two-letter code of each State so excluded.

#### Continuation to Box No. IV Agent

EMHARDT, C. David; NAUGHTON, Joseph A., Jr.; MORIARTY, John V.; McNETT, John C.; HENRY, Thomas Q.; DURLACHER, James M.; REEVES, Charles R.; WAGNER, Vincent O.; ZLATOS, Steve; BEREVESKOS, Spiro; BROWNING, Clifford W.: FRISK, R. Randall; LUEDERS, Daniel J.; GANDY, Kenneth A.; THOMAS, Timothy N.; JONES, Kurt N.; ALLIE, John H.; BANTA, Holiday W.; COLE, Troy J.; PAYNTER, L. Scott; MEYER, Charles J.; SCHANTZ, Matthew R.; COY, Gregory B.; HIDAY, Lisa A.; DANILUCK, John V.; BROWN, Christopher A.; USHER, Arthur J. IV; COLLIER, Douglas A.; SCHEPERS, Brad A.; STEVENS, Scott J.; MYERS, James B. Jr.; BRADSHAW, John M.; SCHMAL, Charles P.; NOVAK, David E.; SOWERS, Edward E.; CANTRELL, Quentin G.; ROBERTS, John L.; EMANUELE, John J.; GOSNELL, Denise M.; HOUDEK, Jason A.; WHERRY, Michael S.; BARTOL, Michael C., all of Woodard, Emhardt, Moriarty, McNett & Henry LLP, Bank One Center/Tower, Suite 3700, 111 Monument Circle, Indianapolis, Indiana 46204 United States of America

•	انتعم					
Box No. VI PRIORITY		Sheet No &	Ag. 1.: 801	6-618CUM		
	g earlier application(s) is here	by claimed:	<del> </del>			
	Number		Vhore continuouslication	·		
Filing date of earlier application (day/month/year)	of earlier application	national application:	Vhere earlier application regional application:* regional Office	international application receiving Office		
item (1) (12.07.02) 12 July 2002	60/395,649	us		·		
item (2)						
item (3)						
item (4)	,					
item (5)						
Further priority claims a	are indicated in the Suppleme	ntal Box.				
	sted to prepare and transmit t filed with the Office which for t			eceiving Office) identified		
all items item (1) item (2) item (3) item (4) item (5) other, see Supplemental Box						
* Where the earlier application is an ARIPO application, indicate at least one country party to the Paris Convention for the Protection of Industrial Property or one Member of the World Trade Organization for which that earlier application was filed (Rule 4.10(b)(ii)):						
Box No. VII INTERNAT	ONAL SEARCHING AUT	HORITY				
Choice of International Sea international search, indicate	rching Authority (ISA) (if two-	vo or more International Se letter code may be used):	earching Authorities are o	competent to carry out the		
ISA / .US	••••••					
Request to use results of ear International Searching Author		at search (if an earlier sea	arch has been carried ou	t by or requested from the		
Date (day/month/year)	Numbe	er Countr	ry (or regional Office)			
Box No. VIII DECLARAT	IONS		· · · · · · · · · · · · · · · · · · ·			
The following declarations a check-boxes below and indicat				Number of declarations		
Box No. VIII (i)	Declaration as to the identity	of the inventor		:		
Box No. VIII (ii) Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent :						

Declaration as to the applicant's entitlement, as at the international filing

Declaration of inventorship (only for the purposes of the designation of the

Declaration as to non-prejudicial disclosures or exceptions to lack of novelty

date, to claim the priority of the earlier application

United States of America)

Box No. VIII (iii)

Box No. VIII (iv)

Box No. VIII (v)

Box No. IX CHECK LIST, GUAGE	OF FILING	
This international application contains:  (a) the following number of sheets in paper form: request (including declaration sheets) : 7 description (excluding sequence listing part) : 14 claims : 4 abstract : 1 drawings : 5 Sub-total number of sheets : 31 sequence listing part of description (actual number of sheets if filed in paper	This international application is accompanied by the follow item(s) (mark the applicable check-boxes below and indicate it right column the number of each item):  1.  fee calculation sheet 2.  original separate power of attorney 3.  original general power of attorney 4.  copy of general power of attorney; reference number if any: 5.  statement explaining lack of signature 6.  priority document(s) identified in Box No. VI as item(s): 7.  translation of international application into (language):	of items
form, whether or not also filed in computer readable form; see (b) below) : N/A	8. separate indications concerning deposited microorga or other biological material  9. sequence listing in computer readable form (indicate	: also type
Total number of sheets :: 30  (b) sequence listing part of description filed in computer readable form  (i)  only (under Section 801(a)(i))	and number of carriers (diskette, CD-ROM, CD-R or  (i) copy submitted for the purposes of internatio under Rule 13ter only (and not as part of the international application)  (ii) conly where check-box (b)(i) or (b)(ii) is mark	other )) nal search :
<ul> <li>(ii) ☐ in addition to being filed in paper form (under Section 801(a)(ii))</li> <li>Type and number of carriers (diskette, CD-ROM, CD-R or other) on which the sequence listing part is contained (additional copies to be indicated under item 9(ii), in</li> </ul>	column) additional copies including, where a the copy for the purposes of international sear Rule 13ter  (iii) together with relevant statement as to the ider of the copy or copies with the sequence listing	pplicable, rch under : atity
right column): N/A	mentioned in left column  10. other (specify): Transmittal Letter; Postcard	:
Figure of the drawings which should accompany the abstract: FIG. 1	Language of filing of the	
	r, AGENT OR COMMON REPRESENTATIVE	
	ning and the capacity in which the person signs (if such capacity is not obviou  Agent:	s from reading the reques
Applicants: CUMMINS INC. Rahu R. UPLAP Vinayak S. TIKHE Sanil S. BAHULIKAR Pralhad S. DESHPANDE Pravin A. SURYAWANSHI Asmita Y. KHAIRNAR Manik S. DAMLE Ishani A. PUJARI	James M. Durlache (James M. DURLACHER)	eu
***	For receiving Office use only	
Date of actual receipt of the purported international application:		2. Drawings:
<ol> <li>Corrected date of actual receipt due to later by timely received papers or drawings completing the purported international application:</li> </ol>	it g	
4. Date of timely receipt of the required corrections under PCT Article 11(2):		not received:
5. International Searching Authority (if two or more are competent): ISA /	6. Transmittal of search copy delayed until search fee is paid	•
Date of receipt of the record copy	For International Bureau use only	

# TRANSMITTAL LETTER TO THE UNITED STATES RECEIVING OFFICE

Date	3 July 2003
International Application No.	
Attorney Docket No.	8016-618CUM

ı.	Certif	lcatio	n under 37 CF	R 1.10 (if applicable)								
			073 US				3 July 2003					
		E	xpress Mail ma	iling number			Date of Deposit					
I hereby certify that the application/correspondence attached hereto is being deposited with the United St Post Office to Addressee* service under 37 CFR 1.10 on the date indicated above and is addressed to M. Patents, PO Box 1450, Alexandria, VA 22313-1450.							d States Pos o Mail Stop	stal Se PCT, C	rvice "Express N Commissioner fo	fail r		
	Lut a. Rogers					Ruth A	Ruth A. Rogers					
	Sig	natur	of person mail	ing correspondence	<u> </u>	Туре	d or p	rinted nam	e of person	mailin	g correspondence	e
II. New international Application												
	TITLE START-UP CONTROL OF INTEL COMBUSTION ENGINES			RNAL						rliest priority date Day/Month/Year)		
											(12.07.02)	]
5	SCREENING DISCLOSURE INFORMATION: In order to assist in screening the accompanying international application purposes of determining whether a license for foreign transmittal should and could be granted and for other purposes, to following information is supplied. (Note: check as many boxes as apply):  A. The invention disclosed was not made in the United States.  B. There is no prior U.S. application relating to this invention.  C. The following prior U.S. application(s) contain subject matter which is related to the invention disclosed in the attached international application. (NOTE: priority to these applications may or may not be claimed on form PCT/RO/101 (Request) and this listing does not constitute a claim for priority.)									es, the		
	арр	application no. 60/395,649				filed on			12 July 2	2002		]
	арр	application no.				filed on	n					
	D.	The present international application contains additional subject matter not found in the prior U.S. application (sidentified in paragraph C. above. The additional subject matter is found on pages throughout the application and DOES NOT ALTER MIGHT BE CONSIDERED TO ALTER the general nature of the invention in a manner which would require the U.S. application to have been made available for inspection by the appropriate defense agencies under 35 U.S.C. 181 and 37 CFR 5.1. See 37 CFR 5.15.								on nanner		
111.	A Response to an Invitation from the RO/US. The following document(s) is (are) enclosed:											
	<b>A</b> .		A Request for	An Extension of Time to	File a Resp	onse						
	В.		A Power of Attorney (General or Regula			ar)						
	C.		Replacement pages:									
		г	pages		of the reque	st (PCT/RO/	101)	pages			of the figures	<del></del>
		ŀ	pages		of the descri			pages			of the abstract	
	_	ے [	pages		of the claims				,			
	D.	Ш	Submission of I	Priority Documents								
			Priority docum	nent				Priority d	ocument			
	Ε.		Fees as speci	fied on attached Fee Ca	lculation she	et form PCT/I	RO/10	01 аплех				
ľV.		A Re	quest for Rect	ification under PCT 91		Petition		A Seque	nce Listing	Diske	ette	
V.		Othe	r (please specif	ý): -							`	
		Ш	Applicant		James M	. DURLAC	HEF	3				
The person signing this form is the:				nt (Reg. No.)#28,840	1	Typed name of signer						
		一	Common Re	presentative .	James M. Durlacher							
		/L				/ Signature						

PTO-1382 (Rev. 04-2003)

U.S. Department of Commerce: Patent and Trademark Office

## **PCT**

inte	ernalapplication.	
- :	For receiving Office use only	_

FEE CALCULATION SHEET	International Application No.				
Annex to the Request					
Applicant's or agent's file reference 8016-618CUM	Date stamp of the receiving Office				
Applicant					
CUMMINS INC., et al.					
CALCULATION OF PRESCRIBED FEES	240 T				
1. TRANSMITTAL FEE	700 [S]				
2. SEARCH FEE	t the international				
3. INTERNATIONAL FEE Basic Fee					
Where item (b) of Box No. IX applies, enter Sub-total number of sl Where item (b) of Box No. IX does not apply, enter Total number of bl first 30 sheets	1				
b2 -1 · x 12 =	1:2 b2				
in excess of 30 additional component (only if sequence listing part of description is filed in computer readable form under Section 801(a)(i), or both in that form and on paper, under Section 801(a)(ii)):	ion				
400 x	-0- b3				
fee per sheet	488 B				
Add amounts entered at b1, b2 and b3 and enter total at B					
5 <sub>x</sub> 104 =	520 D				
number of designation fees payable (maximum 5) amount of designation fee	1008. [7]				
Add amounts entered at B and D and enter total at I	[]				
(Applicants from certain States are entitled to a reduction of 75% international fee. Where the applicant is (or all applicants are) so entitled, to be entered at I is 25% of the sum of the amounts entered at B and D.	the total )				
4. FEE FOR PRIORITY DOCUMENT (if applicable)	20 P				
5. TOTAL FEES PAYABLE	1968				
Add amounts entered at T, S, I and P, and enter total in the TOTAL b	ox TOTAL				
The designation fees are not paid at this time.					
MODE OF PAYMENT					
authorization to charge deposit account (see below) postal money order	cash coupons				
cheque bank draft	revenue stamps other (specify):				
AUTHORIZATION TO CHARGE (OR CREDIT) DEPOSIT ACCO (This mode of payment may not be available at all receiving Offices)	Receiving Office: RO/				
Authorization to charge the total feet indicated shove	Deposit Account No.: 23-3030				
Authorization to charge the total fees indicated above.  (This check-box may be marked only if the conditions for deposit account acco	Date: 3July 2003				
of the receiving Office so permit) Authorization to charge any deficient or credit any overpayment in the total fees indicated above.	Name: James M. DURLACHER				
Authorization to charge the fee for priority document.	Signature: James m. Durlacher				
PCT/PO/101 (Annex) (January 2002)	See Notes to the fee calculation sheet				